

CLAIMS

I hereby claim:

1. An invasive medical procedure site dressing, comprising:
 - a. an observation door hingedly attached to a patch base layer;
 - b. an absorbent layer interposed between a carrier paper and said patch base layer;
and
 - c. a procedure site aperture which passes through co-aligned apertures in said absorbent layer and said patch base layer; wherein
 - d. said carrier paper is adhesively adhered to said patch base layer and said absorbent layer is smaller than said patch base layer.
2. The invasive medical procedure site dressing of claim 1, wherein said carrier paper contacts a bottom surface of said absorbent layer and a portion of a bottom face of said patch base layer.
3. The invasive medical procedure site dressing of claim 1, wherein said carrier paper is composed of material designed to affix to and release from said adhesive layer.
4. The invasive medical procedure site dressing of claim 1, wherein said patch base layer is composed of a flexible material.
5. The invasive medical procedure site dressing of claim 1, wherein said patch base layer further comprises an adhesive coating on a bottom face of said patch base layer.
6. The invasive medical procedure site dressing of claim 5, wherein said adhesive coating on said patch base layer is of such strength to adhere said site dressing to said patient's skin without requiring an adhesive coating on said absorbent layer.

7. The invasive medical procedure site dressing of claim 1, wherein said absorbent layer is composed of an absorbent material.
8. The invasive medical procedure site dressing of claim 1, wherein said absorbent layer further comprises an adhesive coating on a bottom surface.
9. The invasive medical procedure site dressing of claim 1, wherein said absorbent layer varies in thickness from about 1/16 of an inch to about one (1) inch.
10. The invasive medical procedure site dressing of claim 1, wherein said procedure site aperture through said absorbent layer and said procedure site aperture through said patch base layer are similar in size and shape.
11. The invasive medical procedure site dressing of claim 1, wherein said observation door is composed of a transparent material.
12. The invasive medical procedure site dressing of claim 1, wherein said observation door is convex-shaped.
13. The invasive medical procedure site dressing of claim 1, wherein said observation door is comprised of a flap member and a fixed member joined at a hinge, said fixed member folded under said flap member at said hinge and adhered to said patch base layer with a permanent adhesive.
14. The invasive medical procedure site dressing of claim 13, wherein said observation door is held in an open and undeployed position by a releasable adhesive bead located on said patch base layer such that said flap member of said observation door can be released from said releasable adhesive bead and swiveled on said hinge to a closed and deployed position.

15. The invasive medical procedure site dressing of claim 14, wherein said flap member is further comprised of a positioning tab placed opposite said hinge.
16. The invasive medical procedure site dressing of claim 13, wherein said flap member of said observation door has a transparent window.
17. The invasive medical procedure site dressing of claim 13, wherein said flap member of said observation door is comprised of a gas permeable material with minute pores and a releasable adhesive on said flap member's top surface.
18. The invasive medical procedure site dressing of claim 17, wherein said flap member of said observation door has an absorbent pad mounted to a backing releasably affixed to said flap member with said releasable adhesive.
19. The invasive medical procedure site dressing of claim 18, wherein said absorbent pad is comprised of an absorbent material, such as, but not limited to, cotton or absorbent polyurethane, and wherein said absorbent pad is cut from said absorbent layer such that said absorbent pad is of about a same size and shape as said absorbent layer.
20. The invasive medical procedure site dressing of claim 18, wherein said absorbent pad has a backing with a removal tab.
21. The invasive medical procedure site dressing of claim 20, wherein said removal tab is extended and said absorbent pad is positioned on a lower side of said extended removal tab.
22. The invasive medical procedure site dressing of claim 1, wherein said observation door is covered by an opaque outer door affixed to said observation door, wherein

- said opaque outer door has a fixed member adhered with a permanent sealant to said patch base layer, said fixed member joining a flap member by a hinge.
23. The invasive medical procedure site dressing of claim 22, wherein said opaque outer door has a releasable adhesive on a surface.
24. The invasive medical procedure site dressing of claim 23, wherein said opaque outer door is comprised of a gas permeable material.
25. The invasive medical procedure site dressing of claim 23, wherein said releasable adhesive is placed on only one edge of said opaque outer door.
26. A preemptive bandage comprising:
- a. a carrier paper;
 - b. a patch base layer;
 - c. an observation door having a hinge and hingedly affixed to said patch base layer;
 - d. an absorbent layer positioned between said carrier paper and said patch base layer; and
 - e. a procedure site aperture formed through said patch base layer and said absorbent layer, said patch base layer and said absorbent layer co-aligned; wherein
 - f. said carrier paper is adhesively adhered to said absorbent layer and said patch base layer, said patch base layer is positioned on top of said absorbent layer, and said patch base layer extends beyond said absorbent layer.

27. A dressing comprised of a flexible adhesive layer defining an aperture and a domed-shape observation window.
28. The dressing of claim 27, wherein a removable absorbent pad is positioned in said domed-shape observation window.
29. A dressing after-procedure patch comprised of a removable absorbent pad, a flexible adhesive layer, an aperture through said flexible adhesive layer, and a convex-shaped observation window over said aperture.
30. A method of using an invasive medical procedure site dressing, comprising:
 - a. cleaning a medical procedure site;
 - b. removing a carrier paper;
 - c. contacting an absorbent layer directly to skin at said medical procedure site;
 - d. positioning a procedure site aperture defined by said absorbent layer completely around said medical procedure site such that sufficient open space is available for performance of a medical procedure;
 - e. performing said medical procedure at said medical procedure site through said procedure site aperture; and
 - f. placing an observation door in said observation door's closed and deployed position such that said procedure site aperture is covered and protected by a flap member of said observation door.
31. The method of using the invasive medical procedure site dressing of claim 30, further comprising the step of closing said observation door to bring an absorbent pad located on said observation door into contact with said medical procedure site by wedging said absorbent pad into said procedure site aperture, such that said

absorbent pad about completely fills said procedure site aperture and no further pressure application or adhesives are required to hold said absorbent pad in place to wick away fluids and tissue exudate and to cover said medical procedure site.

32. The method of using the invasive medical procedure site dressing of claim 31, further comprising opening said observation door, removing said absorbent pad from said observation door by pulling a backing away from said observation door using a removal tab, and closing said observation door.
33. The method of using the invasive medical procedure site dressing of claim 32, further comprising removing said absorbent pad from said observation door by pulling said removal tab left to rotate said observation door over said procedure site aperture with one single movement, whereby said removal tab is extended and said absorbent pad is positioned on a lower side of said removal tab.
34. The method of using the invasive medical procedure site dressing of claim 30, further comprising accessing said medical procedure site by lifting a releasable adhesive on said flap member's top surface and opening said observation door, and closing said observation door after observation by adjusting a positioning tab to facilitate moving said observation door from an open position back to said closed and deployed position
35. The method of using the invasive medical procedure site dressing of claim 30, further comprising opening an opaque outer door positioned on said observation door by lifting said opaque outer door to an open position, viewing said medical procedure site through said observation door when closed, raising said observation

door if access to said medical procedure site is necessary, and closing said

observation door and said opaque outer door after access and observation.

36. A method of using a preemptive medical bandage, comprising:
- a. cleaning a medical procedure site;
 - b. removing a carrier paper from an absorbent layer of said medical bandage and placing said absorbent layer onto skin such that a procedure site aperture defined by said absorbent layer surrounds said medical procedure site;
 - c. performing a medical procedure through said procedure site aperture;
 - d. closing and deploying an observation door such that said procedure site aperture and said medical procedure site are covered and protected by a flap member of said observation door and an absorbent pad of said observation door contacts said medical procedure site and fills said procedure site aperture;
 - e. opening said observation door by lifting a releasable adhesive on said flap member's top surface for accessing said medical procedure site and removing said absorbent pad using a removal tab;
 - f. closing and deploying said observation door from an open to a closed position by adjusting a positioning tab;
 - g. opening an opaque outer door positioned on said observation door for viewing said medical procedure site through said observation door in a deployed position; and
 - h. closing said opaque outer door after observation of said medical procedure site through said observation door in a deployed position.
37. A preemptive medical procedure site dressing, comprising:

- a. a bandage body and a base forming a ring and defining an aperture through said bandage body and said base; and
 - b. a door with a back surface and a front surface opposing said back surface; wherein
 - c. a hinge connects said door with said bandage body.
38. The preemptive medical procedure site dressing of claim 37, further comprising a carrier paper coated with a release coating for packaging and shipping said preemptive medical procedure site dressing, wherein said back surface of said door and a bandage body adhesive of said bandage body are removably adhered to said carrier paper.
39. The preemptive medical procedure site dressing of claim 38, wherein said carrier paper is composed of material designed to affix to and release from said back surface and said bandage body adhesive.
40. The preemptive medical procedure site dressing of claim 37, further comprising an absorbent pad adhesively and centrally positioned on said front surface of said door.
41. The preemptive medical procedure site dressing of claim 40, wherein said absorbent pad is of a similar size, shape, and configuration as said aperture, such that when said door is rotated about said hinge toward said bandage body to deploy said preemptive medical procedure site dressing, said absorbent pad may fit into said aperture and slightly protrude through said aperture.

42. The preemptive medical procedure site dressing of claim 40, wherein said absorbent pad is comprised of an absorbent material, such as cotton, natural absorbent fibers, or absorbent polyurethane.
43. The preemptive medical procedure site dressing of claim 40, wherein said absorbent pad varies in thickness from about 1/32 of an inch to about one (1) inch.
44. The preemptive medical procedure site dressing of claim 40, wherein said absorbent pad is positioned on a piece of release-paper backing with a releasable coating, said release-paper backing releasably affixed to said front surface of said door with said releasable coating on a release tab, such that said absorbent pad and said release-paper backing are removable from said preemptive medical procedure site dressing.
45. The preemptive medical procedure site dressing of claim 37, wherein said bandage body and said base are composed of a flexible, non-toxic, and transparent material, such as natural and synthetic polymers, rubber, or polyurethane
46. The preemptive medical procedure site dressing of claim 37, wherein said door is composed of a transparent material
47. The preemptive medical procedure site dressing of claim 37, wherein said door is composed of an opaque material and said door has a transparent window.
48. The preemptive medical procedure site dressing of claim 37, wherein said door is convex-shaped.
49. The preemptive medical procedure site dressing of claim 37, wherein at least a portion of said door is constructed of a gas permeable material, a semi-permeable membrane, or provided with small pores, holes, or vents.

50. The preemptive medical procedure site dressing of claim 37, wherein said front surface of said door further comprises a non-permanent and re-positionable adhesive.
51. The preemptive medical procedure site dressing of claim 37, wherein said aperture is covered by a non-coring, flexible, self-sealing, non-pyrogenic clear or translucent injection material, such as a thermoplastic elastomeric film.
52. The preemptive medical procedure site dressing of claim 51, wherein said injection material is held in place over said aperture by a film adhesive between an underside periphery of said aperture and said base of said bandage body.
53. The preemptive medical procedure site dressing of claim 51, wherein said injection material is held in place by a retaining layer, said retaining layer having an adhesively coated retaining layer bottom attached to a top surface of said injection material at a periphery and to said base of said bandage body to hold said injection material firmly in place on said bandage body.
54. The preemptive medical procedure site dressing of claim 53, wherein said retaining layer has a retaining layer aperture.
55. A preemptive bandage for medical procedures, comprising:
 - a. a bandage body and a procedure site aperture formed by a 360-degree ring through said bandage body; and
 - b. a door hingedly attached to said bandage body, such that said door rotates about a hinge and a flexible material to deploy and close over said bandage body.

56. The preemptive bandage for medical procedures of claim 55, further comprising a carrier paper with a release coating upon which a back surface of said door and a bandage body adhesive of said bandage body are removably adhered.
57. The preemptive bandage for medical procedures of claim 55, further comprising an absorbent pad removably and adhesively positioned on a front surface of said door.
58. A preemptive bandage comprising:
 - a. an absorbent pad;
 - b. a bandage body and a procedure site aperture formed by a 360-degree ring through said bandage body and a base of said bandage body;
 - c. a door hingedly connected with said bandage body, such that said door rotates about a hinge to close and cause a front surface of said bandage body to contact said base of said bandage body;
 - d. a non-coring, flexible, self-sealing, non-pyrogenic clear or translucent injection material held in place over said procedure site aperture by a film adhesive between an underside periphery of said aperture and said base of said bandage body; and
 - e. a retaining layer positioned over said injection material, said retaining layer having a retaining layer bottom attached to a top surface of said injection material at a periphery and to said base of said bandage body to hold said injection material firmly in place on said bandage body.
59. A method of using a preemptive medical procedure site dressing, comprising:
 - a. removing a carrier paper from said preemptive medical procedure site dressing;

- b. placing said preemptive medical procedure site dressing on a patient's skin so that a procedure site aperture of a bandage body completely surrounds a procedure site with enough open space available for a medical procedure to be performed;
 - c. adhering a bandage body adhesive of said bandage body to said patient's skin;
 - d. performing said medical procedure; and
 - e. closing a door hingedly attached to said bandage body by rotating said door about a hinge to bring an absorbent pad close to or in contact with said procedure site and to bring a front surface of said door into contact with a base of said bandage body to seal said procedure site aperture.
60. The method of using a preemptive medical procedure site dressing of claim 59, further comprising pushing said absorbent pad against a needle barrel and said patient's skin as said needle barrel is being removed from said patient's skin after a needle puncture has been performed.
61. The method of using a preemptive medical procedure site dressing of claim 59, further comprising removing said absorbent pad adhered to a removable release tab by pulling a release-paper backing.
62. The method of using a preemptive medical procedure site dressing of claim 61, further comprising grasping said release tab and rotating said release-paper backing towards said bandage body with said absorbent pad still attached to said paper-release backing.
63. The method of using a preemptive medical procedure site dressing of claim 61, further comprising pulling said release tab away from said door to rotate said door

on said hinge to close said door over said procedure site aperture with a single movement and simultaneously removing said release-paper backing and said absorbent pad from said front surface of said door

64. A method of using a preemptive medical bandage, comprising:
- a. removing a carrier paper from said preemptive medical bandage and placing said preemptive medical bandage onto a patient's skin such that an aperture defined by a bandage body surrounds a medical procedure site;
 - b. performing a medical procedure through said aperture;
 - c. closing and deploying a door hingedly attached to said bandage body, such that said aperture and said medical procedure site are sealed by a front surface of said door contacting a base of said bandage body and an absorbent pad of adhesively attached to said door contacts said medical procedure site and fills said aperture; and
 - d. removing said absorbent pad adhered to a graspable and removable release tab by pulling a release-paper backing and reclosing said door.
65. A method of using a preemptive bandage with a retaining layer and an injection material, comprising:
- a. penetrating with a hypodermic needle on a syringe said retaining layer and said injection material positioned on a bandage body through a procedure site aperture;
 - b. removing said hypodermic needle on said syringe through said retaining layer and said injection material; and

- c. closing a door by rotating said door about a hinge connecting said door with said bandage body.
- 66. A bandage deployer, comprising:
 - a. a deployer component; and
 - b. a bandage component; wherein
 - c. said deployer component has one or more deployer apertures positioned on a flexible release-paper; and wherein
 - d. said bandage component has an adhesive flap and a bandage back flap which adhere to each other when said bandage deployer is folded at a hinge to bring said adhesive flap into contact with said bandage back flap through said deployer apertures;
 - e. a bandaging material on said bandage component; and
 - f. an absorbent pad adhered to said adhesive flap.
- 67. The bandage deployer of claim 66, wherein said one or more deployer apertures are positioned near an end of said flexible release-paper.
- 68. The bandage deployer of claim 66, wherein said flexible release-paper is on a bottom of said deployer component bottom.
- 69. The bandage deployer of claim 66, wherein said deployer component further has a piece of adhesive tape to hold said bandage deployer in its closed configuration.
- 70. The bandage deployer of claim 66, wherein said flexible release-paper has an adhesive on a non-coated side of an end of said flexible release-paper.

71. The bandage deployer of claim 66, wherein an end of said flexible release-paper, from a left edge to a right edge, of said deployer component, is coated on at least one side with a re-positionable adhesive.
72. The bandage deployer of claim 66, wherein said flexible release-paper has a plurality of hinge locations on said deployer component.
73. The bandage deployer of claim 66, wherein a bandage adhesive coating of said bandage component adheres said bandage deployer to a carrier paper for packaging and shipment.
74. A method to deploy a bandage deployer, comprising the steps of:
 - a. bending a flexible release-paper to about 170-degrees in a down direction at a potential left bend to produce a left bend;
 - b. bending said flexible release paper back about 189-degrees at a potential right bend to produce a right bend;
 - c. positioning an adhesive tape located at an end of said flexible release-paper between a bandage back flap and a bandage front flap on a non-adhesive back of a bandaging material of a bandage component, such that said bandage back flap and said bandage front flap are adhesively apposing and create a deployer hinge;
 - d. pulling a pull tab at an exposed end of said bandage component by pulling said pull tab toward said left bend; and
 - e. pulling said pull tab toward said right bend to rotate said bandaging material around said deployer hinge and create shear between an adhesive of said adhesive tape and a release-paper end, thereby deploying said bandage

deployer and straightening out a skin side adhesive surface of said bandage component against a patient's skin or bringing an absorbent pad into contact with said patient's skin; wherein said flexible release paper is remaining adhered to a surface of said bandaging material some part of said adhesive tape until said bandaging material is rotated around said release-paper end.

75. A method to deploy a bandage deployer, comprising:
- a. positioning a deployer component and a bandage component on a patient's skin with a deployer hinge near an injection site and about half a distance from an absorbent pad left edge and an absorbent pad right edge;
 - b. inserting a needle;
 - c. pulling either a pull-tab or a release at a right bend toward said deployer hinge, thereby pulling one side of an adhesive tape bottom off of a bandage back flap of a bandaging material and rotating an absorbent pad around said deployer hinge all the way to needle insertion site and pressing said absorbent pad near said needle insertion site;
 - d. retracting said needle with said absorbent pad and said bandaging material covering said needle insertion site;
 - e. pressing an adhesive flap against said needle insertion site;
 - f. pulling said pull-tab towards an end of said bandaging material;
 - g. pulling said deployer component away from a non-adhesive back and pulling said adhesive tape off of said non-adhesive back;
 - h. setting said bandage component by pressing said bandage component against a patient's skin from one end to another.

76. A medical procedure site dressing deployer, comprising:
- a. a deployer component having a deployer hinge, a deployer component bottom facing an adhesive flap of a bandaging material, said bandaging material having a non-adhesive back and an adhesive flap, and a flexible release-paper adhesively adhered to said deployer component bottom; and
 - b. an absorbent pad located around said deployer hinge and bent with said deployer hinge such that said deployer component can be lifted away from a release coating on a carrier paper with a pull-tab without touching a said adhesive flap and an adhesive coating bottom; wherein
 - c. said absorbent pad traverses said bandaging material and a skin side adhesive surface is adhered to a patient's skin to secure said deployer.
77. A method of deploying a medical procedure site dressing deployer, comprising the steps of:
- a. removing a carrier paper from a deployer component;
 - b. positioning said medical procedure site dressing deployer near a procedure site such that a medical procedure site is about half a distance from an absorbent pad left edge and an absorbent pad right edge;
 - c. lifting a pull-tab to pull a flexible release-paper coated release-surface of a deployer component bottom away from an adhesive flap of bandaging materials;
 - d. pulling said flexible release-paper almost completely free of said bandaging materials;

- e. rotating said bandaging materials on about a deployer hinge so as to bring a skin-side adhesive flap into contact with a patient's skin and said adhesive flap holding said absorbent pad to cover said procedure site; and
 - f. pulling said pull-tab such that an adhesive tape is pulled off of the skin thereby freeing said deployer component to be discarded.
78. A deployer for a medical procedure site dressing to preemptively deliver a thin bandaging material, comprising:
- a. a deployer component having a deployer hinge, a deployer component bottom adhesively adhered to a carrier paper, and a bandaging material with a weakly-adhered backing bonded to a non-adhesive back;
 - b. an absorbent pad having a lower absorbent pad surface, whereby said absorbent pad and said deployer hinge are positioned so as to hold said deployer component in its open configuration until deployed; and
 - c. a flexible release-paper with a pressure point and a double-sided adhesive tape, whereby said adhesive tape attaches said flexible release-paper to said layer of weakly-adhered backing.
79. The deployer for a medical procedure site dressing of claim 78, said bandaging material composed of a clear thin polyurethane bonded with said weakly-adhered backing composed of a polyethylene release material on said non-adhesive back of said bandaging material.
80. The deployer for a medical procedure site dressing of claim 78, wherein said deployer hinge is offset and said adhesive tape and an adhesive coating bottom are aligned to a backing edge, wherein said adhesive tape fills a space between said

deployer's weakly adhered backing left and weakly adhered backing right and prevents said weakly adhered backing left and said weakly adhered backing right from being separated

81. The deployer for a medical procedure site dressing of claim 80, wherein a lower edge of said bandaging material is slightly shorter than said weakly-adhered backing, and wherein a backing end extends beyond said lower edge.
82. A method of deploying a deployer for a medical procedure site dressing to preemptively deliver a thin bandaging material, comprising:
 - a. bending an absorbent pad about 180-degrees in such away that said absorbent pad can be grasped with a first finger and a second finger by folding a weakly-adhered backing and material at a base of said bandaging material to form a deployer hinge;
 - b. positioning said first finger on a flexible release-paper at a pull tab and positioning said second finger between said absorbent pad and a carrier paper at a lower absorbent pad surface;
 - c. adhering said deployer to a patient's skin at a skin side adhesive surface of said bandaging material;
 - d. holding said weakly-adhered backing at an interface in a folded position;
 - e. pulling said pull-tab to release said flexible release paper;
 - f. removing said weakly-adhered backing from a non-adhesive back of said bandaging material so that said deployer hinge closes and deploys, thereby rotating to flat and bringing a bandage adhesive of said bandaging materials

against said patient's skin where said bandaging materials are fully adhered

with said absorbent pad covering said procedure site; and

- g. applying pressing on said flexible release-paper at a pressure point to set said skin side adhesive surface to said patient's skin.

- 83. The method of deploying a deployer for a medical procedure site dressing to preemptively deliver a thin bandaging material of claim 82, further comprising pulling a weakly adhered backing left cleanly away from said bandaging material and stays with said flexible release-paper and said adhesive tape, such that when said pull-tab is pulled, said bandaging material at said skin side adhesive surface stays adhered to said patient's skin, and rotation about said deployer hinge occurs to bring an adhesive flap and said absorbent pad to said patient's skin where said adhesive flap and said absorbent pad will remain adhered and said weakly-adhered backing with said flexible release-paper and said adhesive tape are removed as one piece and discarded.